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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.ap RHIC Zone 6z2 Sweep Checklist

Text Pages 2 through 3

C-A-OPM Procedures in which this Attachment is used.

4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Revision No. 00

Approved: _____
Collider-Accelerator Department Chairman Date

P. Ingrassia, W. MacKay

C-A-OPM-ATT 4.56ap (Y)

RHIC Zone 6z2 Sweep Checklist

Team Leader (TL) _____ Sweeper#2 (S2) _____

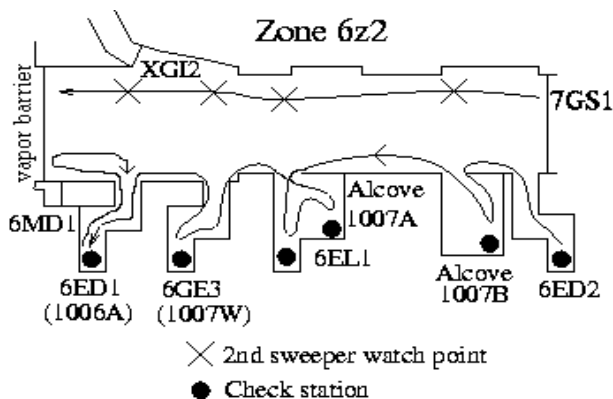
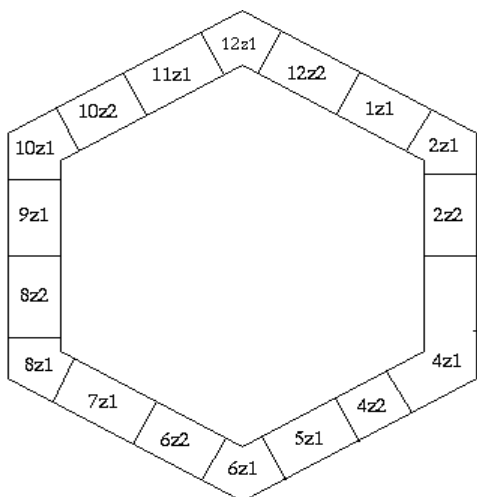
Time: _____ Date: _____

Warning:

IF any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

Prerequisites

- Two persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- RHIC Zone 6z2 Sweep Checklist (two pages)
- Required Tools: at least one flashlight,
- **Strongly Recommended: X line sweep is good and XGI1 and XGI2 reset**
- Walkie-talkies
- Approved Padlocks for vapor barrier door (1) (padlock may be in place).
- All Doors closed THEN 6z2 set to Controlled Access
- Keys: Sweep Reset key S/R015, Controlled Access key CA014, key for padlock, (RG184).



Note:

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the "lower" cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17). References are for inside locations and are visible only by the Team Leader

check

- ___1. Sweep team enters 6z2 after TL requests simultaneous release from MCR (6GE3 is the recommended entry door).
- ___2. TL opens 6GE3 gate by turning the CA015 key clockwise, in the Controlled Access key-switch while Operator in MCR presses simultaneous release for 6GE3.
- ___3. Sweep team walks to 7GS1 at the far (7 o'clock) end of the 6z2 zone TL on the inside gate Sweeper #2 on the outside gate.
- ___4. S2 stands static watch at I07Q21 near gate 7GS1. (outside gate)
- ___5. TL walks down labyrinth and up stairs to 6ED2 door.
- ___6. TL resets gate 6ED2 using the S/R015 key in the RESET keyswitch .

CONTINUED ON REVERSE SIDE

- ___7 TL observes the yellow GATE RESET lamp is lighted
- ___8 TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch at 6CS6.
- ___9 TL observes AREA SECURED lamp blink once.
- ___10 TL sweeps down stairs and out the labyrinth, rejoins S2 and checks the vent grating over the head of S2.
- ___11 TL stands static watch while S2 climbs yellow stairs and searches fan vents and the space above the cable trays.
- ___12 S2 returns to the outside of the tunnel and stands static watch.
- ___13 TL goes to check station 6CS5 in the 1007B Alcove.
- ___14 TL sets second check station (6CS5) by turning S/R015 key in the SWEEP keyswitch.
- ___15 TL observes SWEEP lamp blink once.
- ___16 TL searches all the equipment racks, sweeps out the alcove, and rejoins S2.
- ___17 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___18 TL stops to check the Exhaust Fan Vent Barrier at I-06Q17.
- ___19 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___20 S2 stands static watch opposite I06Q13 & observes overhead alcove barriers are in place.
- ___21 TL walks to the ladder at 6EL1 in alcove 1007A.
- ___22 IF there is no mirror to verify no one is on the landing at the top of the ladder, THEN TL must climb the ladder to verify no one is on the landing and to check that 6EL1 door is closed.
- ___23 TL resets gate 6EL1 using the S/R015 key in the RESET keyswitch at the bottom of the ladder.
- ___24 IF 6EL1 will not reset THEN TL climbs the ladder, closes 6EL1, then repeats step 23.
- ___25 TL observes GATE RESET lamp lights after RESET.
- ___26 TL sets third check station (6CS3) by turning S/R015 key in the SWEEP keyswitch.
- ___27 TL observes AREA SECURED lamp blink once.
- ___28 TL searches all the equipment racks,
- ___29 TL goes to check station 6CS4 at the far corner of the alcove.
- ___30 TL sets fourth check station (6CS4) by turning S/R015 key in the SWEEP keyswitch.
- ___31 TL observes AREA SECURED lamp blink once.
- ___32 TL sweeps out the alcove, and rejoins S2.
- ___33 TL confirms fan vent barrier is in place on the far side of the tunnel (above S2).
- ___34 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___35 S2 stops and stands static watch at I06D8Q9.
- ___36 IF not padlocked search inner and outer fan duct access doors and padlock doors.
- ___37 TL walks down labyrinth to gate 6GE3.
- ___38 TL sets fifth check station (6CS2) by turning S/R015 key in the SWEEP keyswitch.
- ___39 TL observes AREA SECURED lamp blink once.
- ___40 TL sweeps up the labyrinth and joins S2.
- ___41 Sweep team confirms overhead barriers are in place at I06D5.
- ___42 Sweep team sweeps Counter Clockwise (CCW) around RHIC.
- ___43 S2 crosses under the X line
- ___44 S2 verifies XGI2 is reset and X line AREA SECURED
- ___45 S2 stops and stands static watch at O63WTC by crossing under to inside.
- ___46 TL walks down labyrinth to 6ED1.
- ___47 TL Resets 6ED1 using the S/R015 key in the Reset Keyswitch.
- ___48 TL observes Gate Reset lamp lights after reset.
- ___49 TL ENDS Sweep at check station (6CS1) by turning S/R015 key in the SWEEP keyswitch.
- ___50 TL observes AREA SECURED lamp lights amber.
- ___51 TL sweeps up labyrinth and joins S2. (S2 crosses under to go to outside)
- ___52 Sweep team sweeps Counter Clockwise (CCW) around RHIC to the vapor barrier at the end of the tunnel .
- ___53 Sweep team checks Exhaust Fan Vent Barriers at 6DX
- ___54 TL, unlocks padlock on vapor barrier door, opens the door, sweeps the platform on the other sided of the vapor barrier, closes and padlocks the door with the padlock
- ___55 Sweep Team walks CW back to 6GE3
- ___56 TL contacts MCR for simultaneous release for gate 6GE3.
- ___57 Sweep Team sweeps out zone 6z2 through 6GE3.
- ___58 TL observes the yellow AREA SECURED lamp is lighted.
- ___59 TL contacts MCR and confirms that gates are reset and 6z2 zone indicates sweep is good.

<p style="text-align: center;">Note: IF the AREA SECURED lamp is not lit THEN contact MCR to verify sweep is good.</p>
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- ___60 After returning keys to keytree in MCR, TL RESETS the RCA gate 6GE3 using the RHIC PanelView.
- ___61 After verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log .